

## Peak Sensitivity Wavelength: 880nm

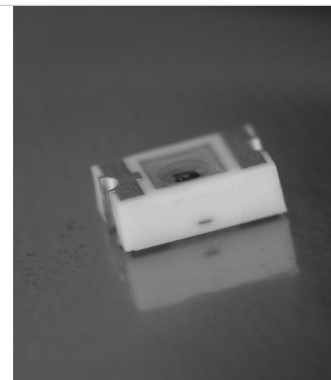
The PT060SMC is a photo transistor in a SMD package. It is well suited for high reliability and high sensitivity applications.

### FEATURES

- > High Reliability in Demanding Environments
- > 3.5 x 2.2 SMD Package
- > Wide Beam Angle

### APPLICATIONS

- > Optical Switches
- > Edge Sensing (Coin Dispensor)
- > Smoke Detectors



## Absolute Maximum Ratings (Ta=25°C)

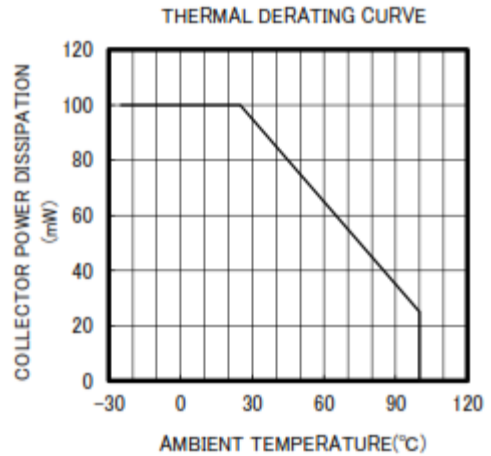
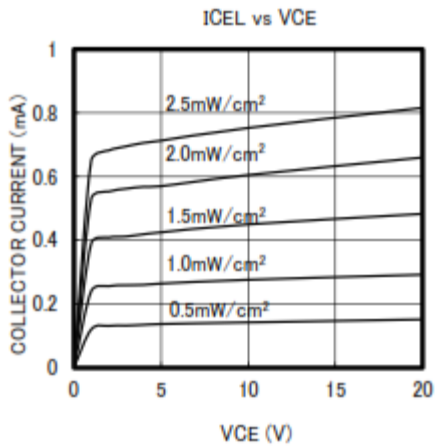
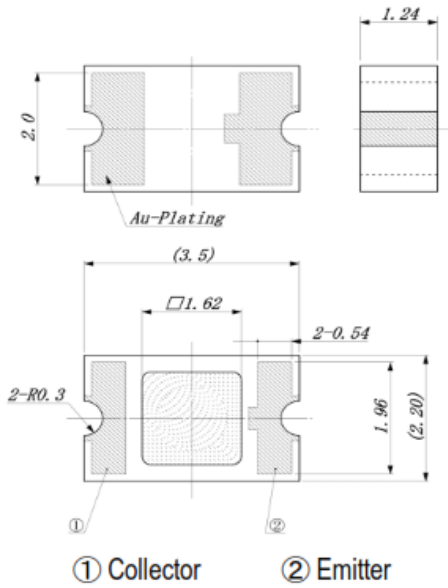


| ITEMS                       | SYMBOL | RATINGS    | UNIT |
|-----------------------------|--------|------------|------|
| Collector-Emitter Voltage   | Vceo   | 30         | V    |
| Emitter-Collector Voltage   | Veco   | 5          | V    |
| Collector Current           | Ic     | 20         | mA   |
| Collector Power Dissipation | Pc     | 100        | mW   |
| Operating Temperature Range | Topr   | -25 ~ +100 | °C   |
| Storage Temperature Range   | Tstg   | -30 ~ +125 | °C   |
| Soldering Temperature       | Tls    | 260        | °C   |

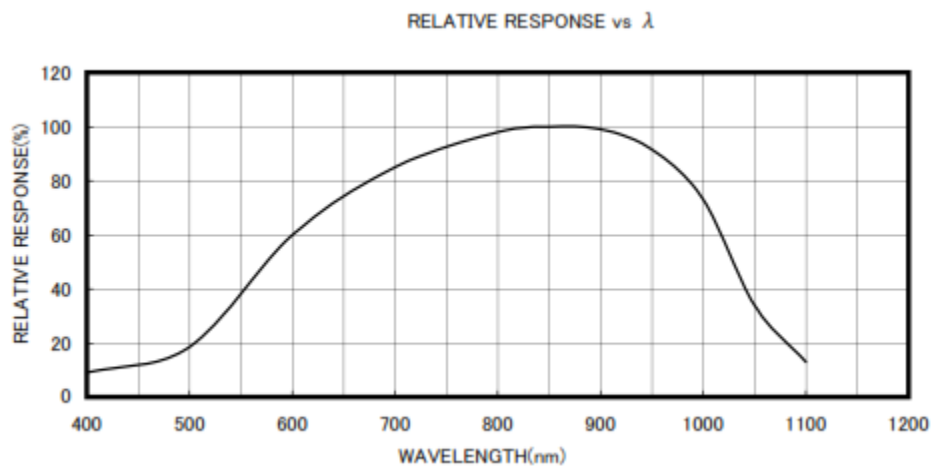
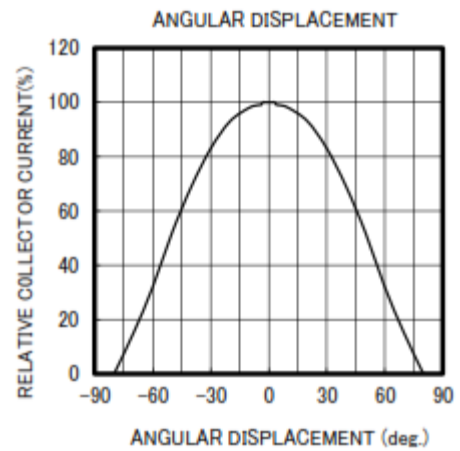
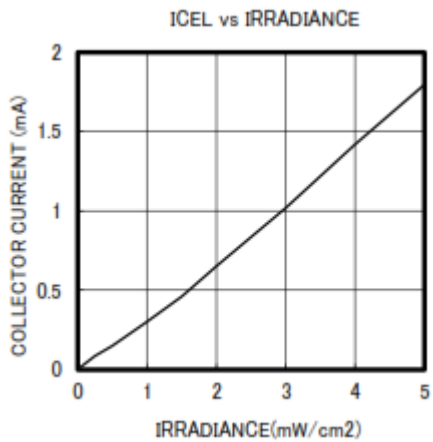
## Electrical & Optical Characteristics (Ta = 25°C)

| ITEMS                       | SYMBOL   | CONDITIONS                           | MIN | TYP      | MAX | UNIT |
|-----------------------------|----------|--------------------------------------|-----|----------|-----|------|
| Collector Emitter Current   | Icel     | Vce=20V, Ee=0.5mW/cm <sup>2</sup> *1 | --  | 0.15     | --  | mA   |
| Collector Dark Current      | Iceo     | Vce=20V, Ee=0mW/cm <sup>2</sup> *1   | --  | --       | 100 | nA   |
| C-E Saturation Voltage      | VCE(sat) | Ic=0.2mA, Ee=5mW/cm <sup>2</sup> *1  | --  | 0.2      | --  | V    |
| Spectral Sensitivity        | λ        | --                                   | --  | 400~1100 | --  | nm   |
| Peak Sensitivity Wavelength | λp       | --                                   | --  | 880      | --  | nm   |
| Switching Time (Rise Time)  | Tr       | RL=100Ω, Vce=5V, Ic=0.5mA            | --  | 7        | --  | μS   |
| Switching Time (Fall Time)  | Tf       | RL=100Ω, Vce=5V, Ic=0.5mA            | --  | 5        | --  | μS   |
| Angular Response            | Θ        | --                                   | --  | ±50      | --  | deg  |

\*1: Color Temperature=2870°K Standard Tungsten Lamp.



Unit: mm, Tolerance: ±0.2



The information contained herein is subject to change without notice.

2021-10-08